What is claimed is:

1. A method of elliciting protection from a pathogen causing disease in an animal comprising:

adminsitering to said animal an immunogenic composition at a dosage level so that an antibody response is not observed.

- 2. The method of claim 1 wherein said pathogen is a viral pathogen.
- 3. A method of elliciting protection from a pathogen causing disease in an animal comprising:

orally administering to said animal an immunologic composition wherein said composisition comprises an edible portion of a transgenic plant which expresses an antigenic determinate of said pathogen and wherein said adminstration is in a dosage level so that an antibody response is not observed.

- 4. A method of elliciting protection from a pathogen causing disease in an animal comprising:
- orally administering to said animal an immunologic composition wherein said composisition comprises a bacterial enterotoxin capable of eliciting and increased interferon level in said animal; and a carrier and wherein said adminstration is in an effective amount so that an antibody response is not observed.
- 5. The method of claim 4 wherein said pathogen is a viral pathogen.
- 6. The method of claim 4 wherein said enterotxin is a heat labile enterotoxin from Escherichia coli.
- 7. The method of claim 4 wherein said enterotoxin is LT toxin or its subunits.

- 8. The method of claim 4 wherein said enterotoxin comprises a mutation to inactivate the A subunit.
- 9. The method of claim 4 wherein said virus is TGEV.
- 10. The method of claim 4 wherein said animal is a pig.
- 11. A method of increasing interferon levels in animals so that a protective effect against pathogens is observed, said method comprising:
- introducing, to said animal, in oral form, an interferon stimulating amount of an immunologic composition, said composition comprising a bacterial enterotoxin; and a carrier.
- 12. The method of claim 11 wherein said pathogen is a viral pathogen.
- 13. A method of increasing interferon levels in animals so that a protective effect against viral pathogens is observed, said method comprising:
- introducing, to said animal, in oral form, an interferon stimulating amount of an immunologic composition, said composition comprising a bacterial enterotoxin; and a carrier.
- 14. The method of claim 13 wherein said enterotxin is a heat labile enterotoxin from Escherichia coli.
- 15. The method of claim 13 wherein said enterotoxin is LT toxin.
- 16. The method of claim 13 wherein said enterotoxin comprises a mutation to inactivate the A subunit.
- 17. The method of claim 13 wherein said virus is TGEV.
- 18. The method of claim 13 wherein said animal is a pig.
- 19. A method of inducing protection in an animal from a disease state caused by a rotavirus and coronovirus infection comprising:
- orally administering to said animal an alpha interferon stimulating amount of a bacterial enterotoxin.

- 20. The method of claim 19 wherein said enterotxin is a heat labile enterotoxin from Escherichia coli.
- 21. The method of claim 19 wherein said enterotoxin is LT toxin.
- 22. The method of claim 19 wherein said enterotoxin comprises a mutation to inactivate the A subunit.
- 23. The method of claim 19 wherein said virus is TGEV.
- 24. The method of claim 19 wherein said animal is a pig.
- 25. A method of ellicitng protection from TGEV in an animal comprising:
- orally administering to said animal an immunologic composition wherein said composisition comprises an edible portion of a transgneic plant which expresses an antigenic determinate of TGEV and wherein said administration is in a dosage level so that an antibody response is not observed.
- 26. A method of elliciting protection from a viral pathogen causing disease in an animal comprising:
- orally administering to said animal an immunologic composition wherein said composisition comprises a bacterial enterotoxin capable of eliciting and increased interferon level in said animal; and a carrier and wherein said adminstration is in an effective amount so that an antibody response is not observed, wherein said viral pathogen is selected from the group consisting of: TGEV, PRRS, and arterovirus.
- 27. A method of increasing interferon levels in animals so that a protective effect against viral pathogens is observed, said method comprising:
- introducing, in oral form to said animal an interferon stimulating amount of an immunologic composisiton comprising a bacterial enterotoxin and a carrier.

28. A method of inducing protection in an animal from a rotavirus and coronovirus infection comprising:

administering to said animal an alpha interferon stimulating amount of a bacterial enterotoxin.